

Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
**10559-580001**Application No.  
**09/982,475****Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant  
**Adam T. Lake et al.**Filing Date  
**October 17, 2001**Group Art Unit  
**2672****U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
J.F.C.	AA	4,600,919	07-1986	Stern			
	AB	4,747,052	05-1988	Hishinuma et al.			
	AC	4,835,712	05-1989	Drebin et al.			
	AD	4,855,934	08-1989	Robinson			
	AE	4,901,064	02-1990	Deering			
	AF	5,124,914	06-1992	Grangeat			
	AG	5,163,126	11-1992	Einkauf et al.			
	AH	5,371,778	12-1994	Yanof et al.			
	AI	5,611,030	03-1997	Stokes			
	AJ	5,731,819	03-1998	Gagne et al.			
	AK	5,757,321	05-1998	Billyard			
	AL	5,786,822	07-1998	Sakaibara			
	AM	5,805,782	09-1998	Foran			
	AN	5,809,219	09-1998	Pearce et al.			
	AO	5,812,141	09-1998	Kamen et al.			
	AP	5,847,712	12-1998	Salesin et al.			
	AQ	5,894,308	04-1999	Isaacs			
	AR	5,929,860	07-1999	Hoppe			
	AS	5,933,148	08-1999	Oka et al.			
	AT	5,949,969	09-1999	Suzuoki et al.			
	AU	5,966,133	10-1999	Hoppe			
	AV	5,966,134	10-1999	Arias			
	AW	5,974,423	10-1999	Margolin			
	AX	6,054,999	04-2000	Strandberg			
	AY	6,057,859	05-2000	Handelman et al.			
	AZ	6,078,331	06-2000	Pulli et al.			
J.F.C.	AAA	6,115,050	09-2000	Landau et al.			

Examiner Signature

*J.F. Carney*

Date Considered

*2/3/05*

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
J.F.C.	ABB	6,175,655	01-2001	George et al.			
	ACC	6,191,787	02-2001	Lu et al.			
	ADD	6,191,796	02-2001	Tarr			
	AEE	6,198,486	03-2001	Junkins et al.			
	AFF	6,201,549	05-2001	Bronskill			
	AGG	6,208,347	03-2001	Migdal et al.			
	AHH	6,219,070	04-2001	Baker et al.			
	AII	6,239,808	05-2001	Kirk et al.			
	AJJ	6,252,608	06-2001	Snyder et al.			
	AKK	6,262,737	07-2001	Li et al.			
	ALL	6,262,739	07-2001	Migdal et al.			
	AMM	6,292,192	09-2001	Moreton			
	ANN	6,317,125	11-2001	Persson			
	AOO	6,337,880	01-2002	Cornog et al.			
	APP	6,388,670	05-2002	Naka et al.			
	AQQ	6,405,071	06-2002	Analoui			
	ARR	6,437,782	08-2002	Pieragostini et al.			
	ASS	6,478,680	11-2002	Yoshioka et al.			
	ATT	6,559,848	05-2003	O'Rourke			
	AUU	6,593,924	07-2003	Lake et al.			
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	AWW	6,608,627	08-2003	Marshall et al.			
	AXX	6,608,628	08-2003	Ross et al.			
	AYY	2001/0026278	10-2001	Arai et al.			
J.F.C.	AZZ	2002/0101421	08-2002	Pallister			

## Foreign Patent Documents or Published Foreign Patent Applications

Examiner	Desig.	Document	Publication	Country or	Class	Subclass	Translation
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Examiner Signature

*J.F. Cunningham*

Date Considered

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Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-580001	Application No. 09/982,475
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR § 1.61(a))		Applicant Adam T. Lake et al.	
		Filing Date October 17, 2001	Group Art Unit 2672

							Yes	No
	AAAA							
	BBBB							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
J.F.C.	ACCC	Appel, Arthur, "The Notion of Quantitative Invisibility and the Machine Rendering of Solids." Proceedings of 22nd National Conference Association for Computing Machinery 1967.
	ADDD	Buck et al., "Performance-Driven Hand Drawn Animation", ACM (NPAR2000), pgs. 101 - 108 (2000).
	AEEE	Catmull et al., "Recursively Generated B-Spline Surfaces on Arbitrary Topological Meshes," Computer Aided Design, 10(6):350 - 355 (1978).
	AFFF	Coelho et al., "An Algorithm for Intersecting and Trimming Parametric Meshes", ACM SIGGRAPH, pgs. 1 - 8 (1998).
	AGGG	Deering, M., "Geometry Compression," Computer Graphics. SIGGRAPH '95, pages 13-20, 1995.
	AHHH	DeRose et al., "Subdivisional Surfaces in Character Animation", ACM, SIGGRAPH'98, pgs. 85 - 94 (1998).
	AIHH	Dyn, N. et al., "A Butterfly Subdivision Scheme for Surface Interpolation with Tension Control," ACM Transactions on Graphics, 9(2):160 - 169 (1990).
	AJJJ	Elber, Gershon, "Interactive Line Art Rendering of Freeform Surfaces", Eurographics'99, 18(3):C1 - C12 (1999).
	AKKK	Gooch et al., "A Non-Photorealistic Lighting Model for Automatic Technical Illustration," Computer Graphics Proceedings, Annual Conference Series, SIGGRAPH'98, pgs. 447-452 (1998).
	ALLL	Gooch et al., "Interactive Technical Illustration," ACM Interactive 3D, pgs. 31 - 38 (1999).
	AMMM	Heidrich et al., "Realistic, Hardware-Accelerated Shading and Lighting," ACM, (SIGGRAPH'99), pgs. 171 - 178 (1999).
	ANNN	Hoppe, H., "Progressive Meshes," URL: <a href="http://www.research.microsoft.com/research/graphics/hoppe/">http://www.research.microsoft.com/research/graphics/hoppe/</a> , (10 pgs.).
	AOOO	Kumar et al., "Interactive Display of Large Scale NURBS Models", ACM, Symp. On Interactive 3D Graphics, pgs. 51 - 58 (1995).
	APPP	Lake et al., "Stylized Rendering Techniques for Scalable Real-Time 3D Animation", NPAR, pgs. 101 - 108 (2000).
	AQQQ	Lander, Jeff, "Making Kine More Flexible," Game Developer Magazine, 5 pgs., November 1998.
	ARRR	Lander, Jeff, "Skin Them Bones," Game Developer Magazine, 4 pgs., May 1998.
	ASSS	Lee, M. et al., "Navigating Through Triangle Meshes Implemented as Linear Quadrees," ACM Transactions on Graphics, 19(2):79 - 121 (2000).
	ATTT	Pedersen, "A Framework for Interactive Texturing on Curved Surfaces", ACM, pgs. 295 - 301 (1996).
J.F.C.	AUUU	"pmG Introduces Messiah: Animate 3.0", URL: <a href="http://www.digitalproducer.com/aHTML/Articles/july_2000/july_17_00/pmg_intros_messiah_animate.htm">http://www.digitalproducer.com/aHTML/Articles/july_2000/july_17_00/pmg_intros_messiah_animate.htm</a> (Accessed 10/26/2004) 2 pgs.

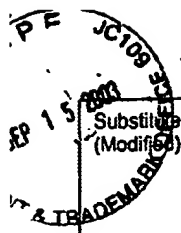
Examiner Signature <i>J.F.C. Crizman</i>	Date Considered 2/3/05
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**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
J.F.C.	AVVV	Pueyo, X. et al., "Rendering Techniques '96," Proc. of Eurographics Rendering Workshop 1996, EUROGRAPHICS, p[gs. 61 - 70 (1996).
	AWWW	"Rockwood, A. et al., ""Real-time Rendering of Trimmed Surfaces,"" Computer Graphics (SIGGRAPH '89 Proceedings) 23:107 - 116 (1989).
	AXXX	Samet, Hanan, "Applications of Spatial Data Structures: Computer Graphics, Image Processing, and GIS," University of Maryland, Addison-Wesley Publishing Company, 1060-1064, Reading, MA, June 1990
	AYYY	Sousa, M., et al., "Computer-Generated Graphite Pencil Rendering of 3-D Polygonal Models", Eurographics'99, 18(3):C195 - C207 (1999).
	AZZZ	Stam, J., "Exact Evaluation of Catmull-Clark Subdivision Surfaces at Arbitrary Parameter Values", SIGGRAPH 98 Conference Proceedings, Annual Conference Series, pgs. 395-404 (1998).
	AAAAA	Taubin et al., "3D Geometry Compression", SIGGRAPH'98 Course Notes (1998).
J.F.C.	ABBBB	Zorin "Interpolation Subdivision for Meshes With Arbitrary Topology" Department of Computer Science, California Institute of Technology, Pasadena, CA

Examiner Signature <i>J.F. Craig Sam</i>	Date Considered <i>2/3/05</i>
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**U.S. Patent Documents**

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J.F.C.	AA	US 4,600,919	07/15/1986	Stern			
	AB	US 6,057,859	05/02/2000	Handelman et al.			
	AC	US 6,337,880	01/08/2002	Cornog et al.			
	AD	US 6,388,670	05/14/2002	Naka et al.			
	AE	US 5,731,819	03/24/1998	Gagne et al.			
	AF	US 5,124,914	06/23/92	Grangeat			
	AG	US 5,163,126	11/10/92	Einkauf et al.			
J.F.C.	AH	US 6,208,347	03/27/01	Migdal			

**Foreign Patent Documents or Published Foreign Patent Applications**

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							Yes	No
	AI							
	AJ							
	AK							
	AL							
	AM							

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Examiner Initial	Desig. ID	Document
J.F.C.	AN	Foley et al., "Computer graphics: principal and practice" Addison-Wesley Publishing Company, 1060-1064, Reading, MA 1996
	AO	Hoppe, "Progressive Meshes" Microsoft Research, 99-108, <a href="http://www.research.microsoft.com/research/graphics/hoppe/">http://www.research.microsoft.com/research/graphics/hoppe/</a>
	AP	Popovic "Progressive Simplicial Complexes" Microsoft Research, <a href="http://www.research.microsoft.com/~hoppe/">http://www.research.microsoft.com/~hoppe/</a>
	AQ	Hoppe "Efficient Implementation of progressive meshes" Coput. & Graphics Vol. 22, No. 1, pp. 27-36, 1998.
	AR	Taubin et al., "Progressive Forest Spilt Compression" IBM T.J. Watson Research Center, Yorktown Heights, NY
	AS	Cohen-Or et al., "Progressive Compression of Arbitrary Triangular Meshes" Computer Science Department, School of Mathematical Sciences, Tel Aviv, Israel
J.F.C.	AT	Bajaj et al., "Progressive Compression and Transmission of Arbitrary Triangular Meshes" Department of Computer Sciences, University of Texas at Austin, Austin, TX

Examiner Signature <i>J.F. Cunningham</i>	Date Considered <i>6/25/04</i>
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